

Abstract of the Disclosure

In a method for recovering Al from an off-gas (3,4) produced during carbothermic reduction of aluminum utilizing at least one smelter (1,2), the off-gas (3,4) is directed to an enclosed reactor (5) which is fed a supply of wood charcoal (7) having a porosity of from about 50 vol.% to 85 vol.% and an average pore diameter of from about 0.05 μm to about 2.00 μm , where the wood charcoal (7) contacts the off-gas (3,4) to produce at least Al_4C_3 (6), which is passed back to the smelter (1,2).